

which *Saturn* is at this Time very near, and after the same Method I settled its Place, *ineunte Anno* 1690, (the Epoch of the *British Catalogue*) in $29^{\circ} 34'$ of *Scorpio* with $2^{\circ} 0' \frac{1}{2}$, North Latitude. By this it will appear, how defective the observed Place of *Saturn* is stated in *Riccioli*, there being above seven Minutes erred in the Latitude thereof.

II. *Observation of a Parhelion, Oct. 26th, 1721.*
By the same.

THIS Morning, 26th of *October*, being on the River coming up to *London*, about half an Hour past Ten, the Sun being then about twenty Degrees high, I observed a Circle about the Sun, which is by no means unusual, when the Air in chilly Weather, such as it is now, is replete with snowy Particles; which Circle was of the Size it always appears in, about 23 Degrees from the Sun, and faintly ting'd with the Colours of the *Iris*. When this Circle happens, I always look out, to see whether any other of the Phenomena that sometimes attend it did at that Time appear, such as *Parhelia*, and other colour'd Circles, concentrick with the Sun, and sometimes, as once I saw it, excentrick; as also a white Circle round the *Zenith*, in equal Altitude with the Sun: But this Time, the Air being thickned with a hazy Vapour, and the Smoke of the Town, I could only see to the Eastward a luminous white Patch, which for about twenty Minutes shone through the thick Air very conspicuously, of about two Degrees diameter, as near as I could estimate it, and about the same Altitude with the Sun; and from it, towards the Sun, there seemed to proceed a long
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white

white Tail, much narrower than the Mock-Sun, but which I took to be a Segment of the white Circle which I once saw entire in *London*. Had the Air been clear, I doubt not but much more of the Phenomena of the *Parbelia* might this Time have been observed: and I hope, that from our Neighbourhood some Member of the *Society* may furnish us with a fuller Relation. But how to explain these Appearances, and account for the Magnitude of these Circles, is what seems still wanting.

III. *An Account of two Mock-Suns, and an Arc of a Rainbow inverted, with an Halo, and its brightest Arc, seen on Sunday and Monday, Octob. 22, & 23. 1721. at Lyndon, Comitatus Rutland, communicated by the Rev. Mr. William Whiston, M. A. sometime Professor of the Mathematicks in the University of Cambridge.*

ABOUT Ten o'Clock in the Morning, on *Sunday, Octob. 22. 1721.* being at the House of *Samuel Barker, Esq;* of *Lyndon* in the County of *Rutland*, after an *Aurora Borealis* the Night before (Wind W. S. W.) I saw an Attempt towards two *Mock-Suns*, as I had done sometimes formerly, of which I immediately inform'd Mr. *Barker*, though without any great Expectations of what followed. About $\frac{1}{2}$ or $\frac{3}{4}$ of an Hour after, I went to view the Heavens, and then found the Appearance compleat; and when Mr. *Barker* and others of the Family were call'd, we all saw it, and all saw